

GTC Tumor-Specific Profiles

Solid Tumors

Colorectal:

MSI	TMB	APC	ATM	BRAF	BRCA1	BRCA2	CTNNB1	EGFR	EPCAM
ERBB2	ERBB4	FBXW7	IDH1	IDH2	KIT	KMT2C	KMT2D	KRAS	MLH1
MSH2	MSH6	NEB	NOTCH1	NRAS	PIK3CA	PDGFRA	PMS2	POLE	PTEN
RNF43	SMAD4	TP53							

Thyroid:

MSI	TMB	ALK	APC	ARID1A	ATM	BRAF	BRCA1	BRCA2	CDKN2A
CTNNB1	EGFR	EPCAM	HRAS	IDH1	IDH2	KIT	KMT2C	KMT2D	KRAS
MEN1	MET	MLH1	MSH2	MSH6	NEB	NF1	NOTCH1	NOTCH2	NRAS
PDGFRA	PIK3CA	PMS2	PTEN	RB1	RET	TERT	TP53	TSHR	

- Thyroid Add Fusion:

ALK	ROS1	RET	PAX8-PPAR γ 1	NTRK1	NTRK2	NTRK3			
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Ovary:

MSI	TMB	APC	ARID1A	ATM	ATR	BRAF	BRCA1	BRCA2	CDK12
CDKN2A	CHEK2	CREBBP	CTNNB1	EGFR	EPCAM	FAT1	FAT4	FBXW7	IDH1
IDH2	KIT	KMT2C	KMT2D	KRAS	MET	MLH1	MLL2	MSH2	MSH6
MTOR	NF1	NOTCH2	NRAS	PDGFRA	PIK3CA	PMS2	PPP2R1A	PTEN	PTPRT
RB1	SMARCA4	TP53							

Lung:

MSI	TMB	ALK	ARID1A	ATM	BAI3	BRAF	BRCA1	BRCA2	CACNA1E
CDKN2A	EGFR	EPCAM	EPHA3	EPHA5	ERBB2	ERBB4	EYS	FAT1	GRIN2A
HCN1	HMCN1	IDH1	IDH2	KIT	KMT2C	KMT2D	KRAS	LRRC7	MET
MLH1	MSH2	MSH6	NF1	NFE2L2	NRAS	NTRK3	OBSCN	PDGFRA	PIK3CA
PIK3CG	PKHD1	PKHD1L1	PMS2	PTEN	PTPRT	RB1	SMARCA4	STK11	TP53

- Lung Add Fusion:

ALK	ROS1	RET	NTRK1	NTRK2	NTRK3				
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Breast:

MSI	TMB	AKT1	APC	ATM	ATR	ATRX	BRAF	BRCA1	BRCA2
CDH1	CDKN2A	EGFR	EPCAM	ERBB2	ERBB3	ERBB4	ESR1	IDH1	IDH2
KIT	KMT2A	KMT2C	KMT2D	KRAS	MAP2K4	MAP3K1	MLH1	MSH2	MSH6
MTOR	NF1	NOTCH1	NOTCH2	NRAS	PDGFRA	PIK3CA	PIK3R1	PMS2	PTEN
RB1	SF3B1	TP53							

Bladder:

MSI	TMB	APC	ARID1A	ATM	ATR	BRAF	BRCA1	BRCA2	CDKN1A
CDKN2A	CREBBP	EGFR	EP300	EPCAM	ERBB2	ERBB3	ERCC2	FBXW7	FGFR3
HRAS	IDH1	IDH2	KDM6A	KIT	KMT2A	KMT2C	KMT2D	KRAS	MLH1
MLL2	MSH2	MSH6	NF1	NOTCH2	NRAS	PDGFRA	PIK3CA	PMS2	RB1
SMARCA4	STAG2	TP53	TSC1	FGFR1	FGFR2	FGFR3			

- Bladder Add Fusion:

FGFR(1-4)									
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Prostate:

MSI	TMB	APC	AR	ATM	BRAF	BRCA1	BRCA2	CDK12	CTNNB1
EGFR	EPCAM	HRAS	IDH1	IDH2	JAK1	KIT	KMT2A	KMT2C	KMT2D
KRAS	MGA	MLH1	MSH2	MSH6	NF1	NRAS	PDGFRA	PIK3CA	PMS2
PTEN	RB1	SPOP	TP53						

Melanoma:

MSI	TMB	BRAF	BRCA1	BRCA2	CDKN2A	CTNNB1	DCC	EGFR	EPCAM
EPHA7	ERBB4	HRAS	IDH1	IDH2	KIT	KMT2C	KMT2D	KRAS	MEN1
MET	MLH1	MSH2	MSH6	NEB	NF1	NOTCH1	NOTCH2	NRAS	PDGFRA
PMS2	PTEN	ROS1	SPTA1	TP53					

Specimen Requirements:

-FFPE: 1 H&E slide and 6-8 unstained slides, 5-7 microns of tissue fixed with 10% NBF fixative. Please circle tumor for microdissection. Alternatively, the FFPE block can be sent for tumor circling and cutting at our laboratory.

Shipping:

Ship using cold pack. The cold pack should not directly contact specimen. Ship as soon as sample collected with overnight delivery.

Turn Around Time:

5 - 7 days